Alternative Crops to Mitigate the Impact of Karnal Bunt on Texas Wheat Producers

Gaylon D. Morgan

State Extension Small Grains Specialist

Soil & Crop Science Department

Texas A&M University

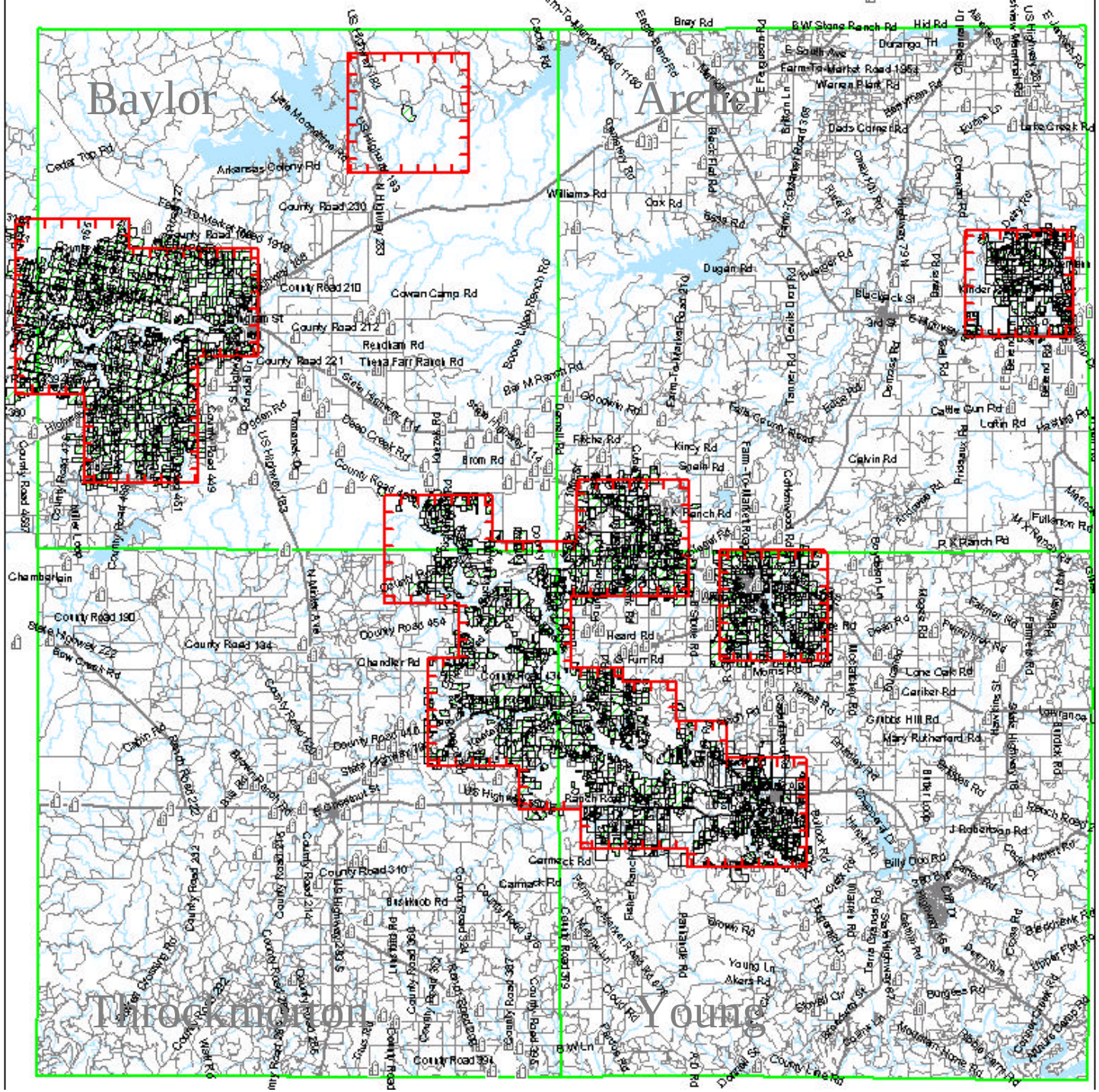
Alternative Crops Research & Information Dissemination

Gaylon Morgan – TAMU, College Station

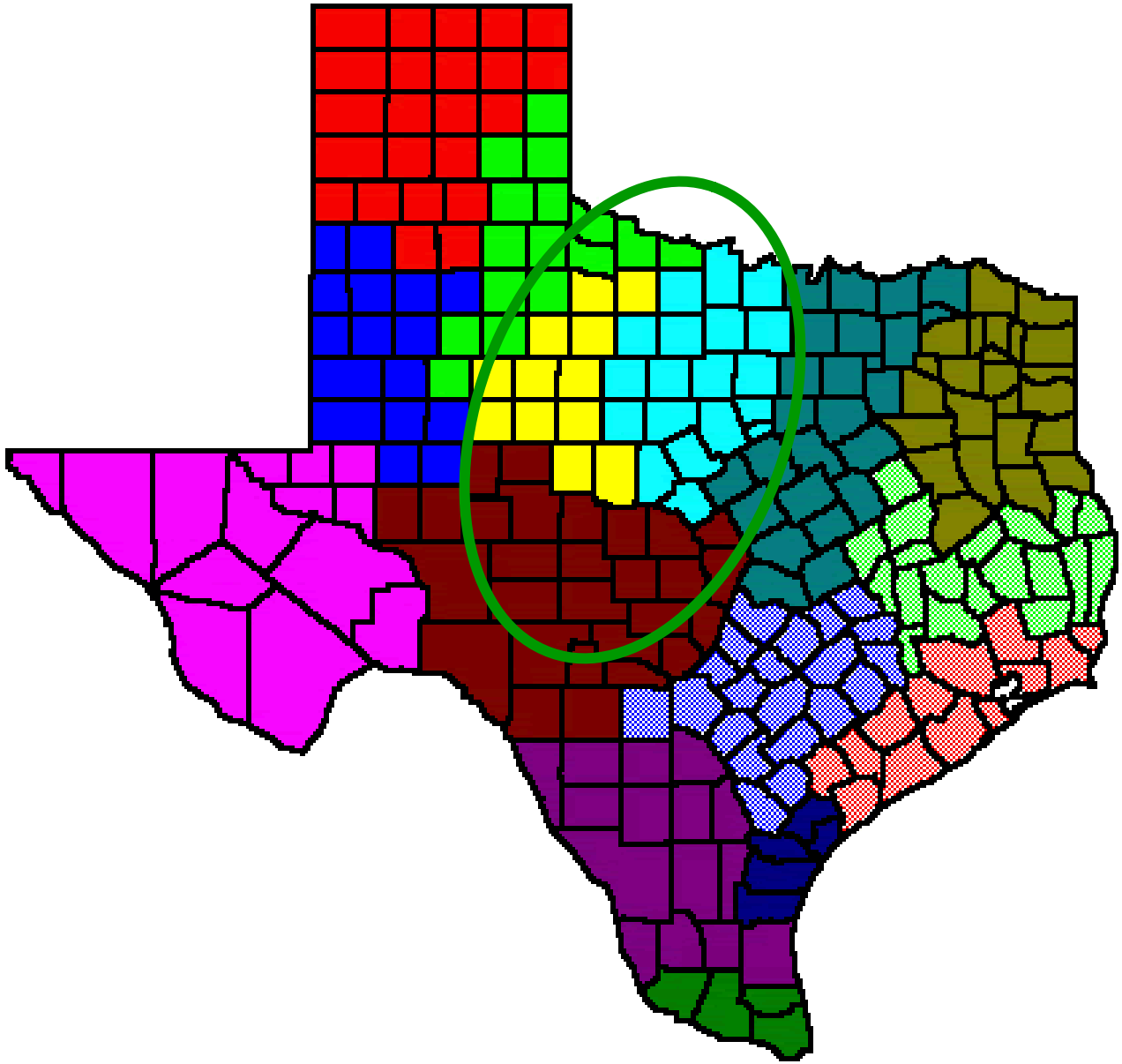
Brent Bean – TAMU, Amarillo

Calvin Trostle – TAMU, Lubbock

Todd Baughman – TAMU, Vernon


Baylor
Archer
Throckmorton
Young

Impact of KB on Texas Wheat Production



N. Low Plains

S. Low Plains

Cross Timbers

Trans-Pecos

2.7 million acres of wheat

KB changed the $$ of Alternative Crops

- Estimated price differential of $1.80/bushel of wheat in KB regulated areas (Federal Register, 2004).

- Not just the KB regulated areas are seeing this price differential.

Non-host Crops

Winter Annuals	Summer Annuals
• Oats	• Sorghum
• Barley	• Cotton
• Rye	• Sunflowers
• Ryegrass	• Guar
• Winter legumes	• Sorghum-sudan
• Canola	• Bermudagrass

Canola

Austrian Winter Pea

12/17/03

12/17/03

Wheat & Canola

Medallion alfalfa & Hubam clover

12/17/03

Winter Forage Options

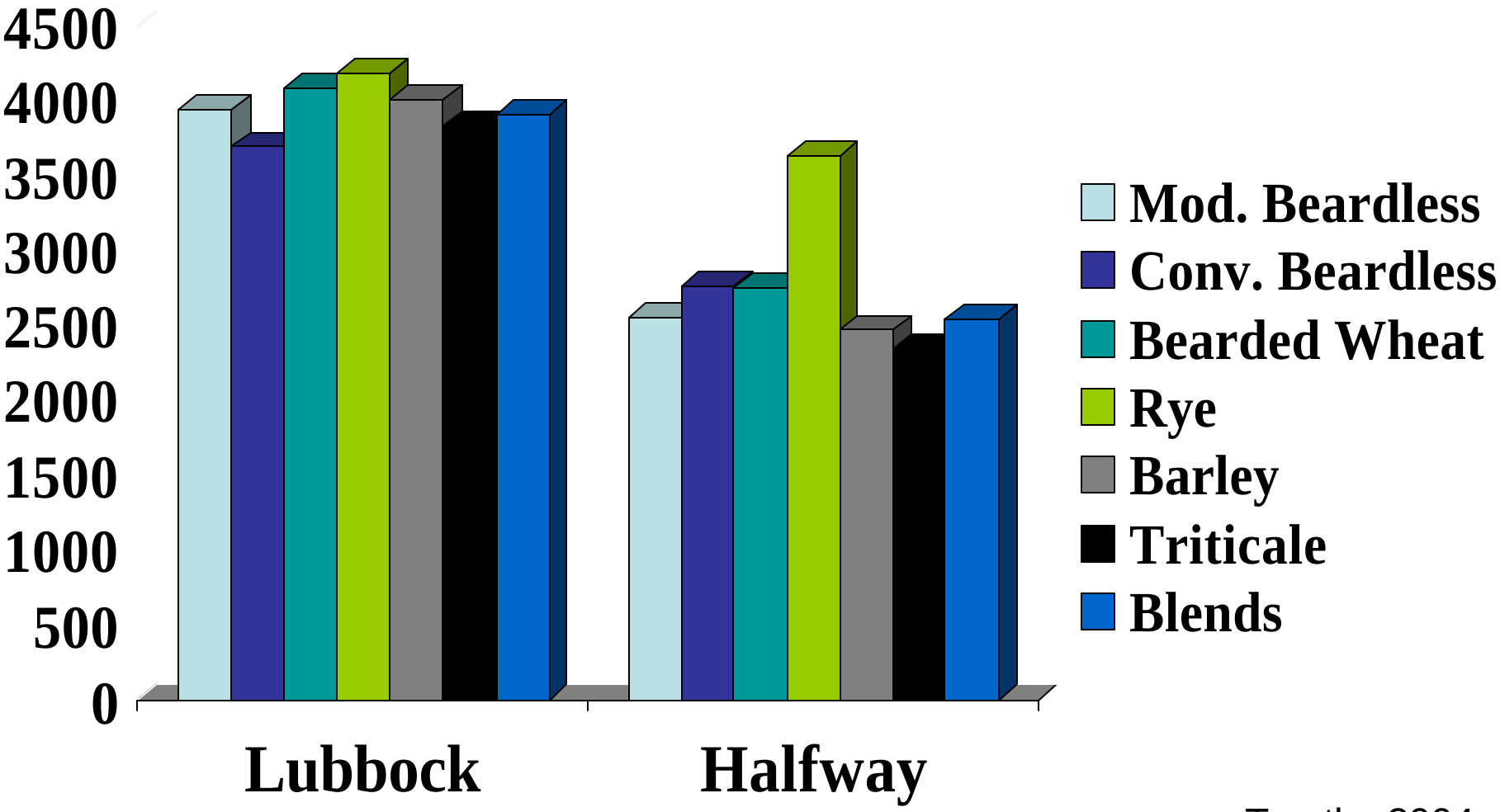
CROP	Rate (lbs/A)	Forage (lbs/Acre)				
		1/19/04	3/10/04	5/6/04	Total	% CP
Wheat	90lb/a	1174	2103	4774	8051	24.60
Rye	90lb/a	1823	2719	3727	8296	25.88
Triticale	90lb/a	2295	2967	3813	9075	26.38
Oat	90lb/a	1447	2795	7078	11320	26.57
Barley	90lb/a	1797	1638	8133	11568	31.25
AWP	15lb/a	491	1201	4018	5710	-
Ryegrass	30lb/a	363	629	6704	7696	27.48
Mean		1341	2007	5464	9334	27.03

Morgan, 2004, Olney, TX

Barley

Oats

2004 Irrig. Small Grains Forage Yields thru mid-Feb.



Trostle, 2004

2004 Small Grain Silage Trial - Swisher

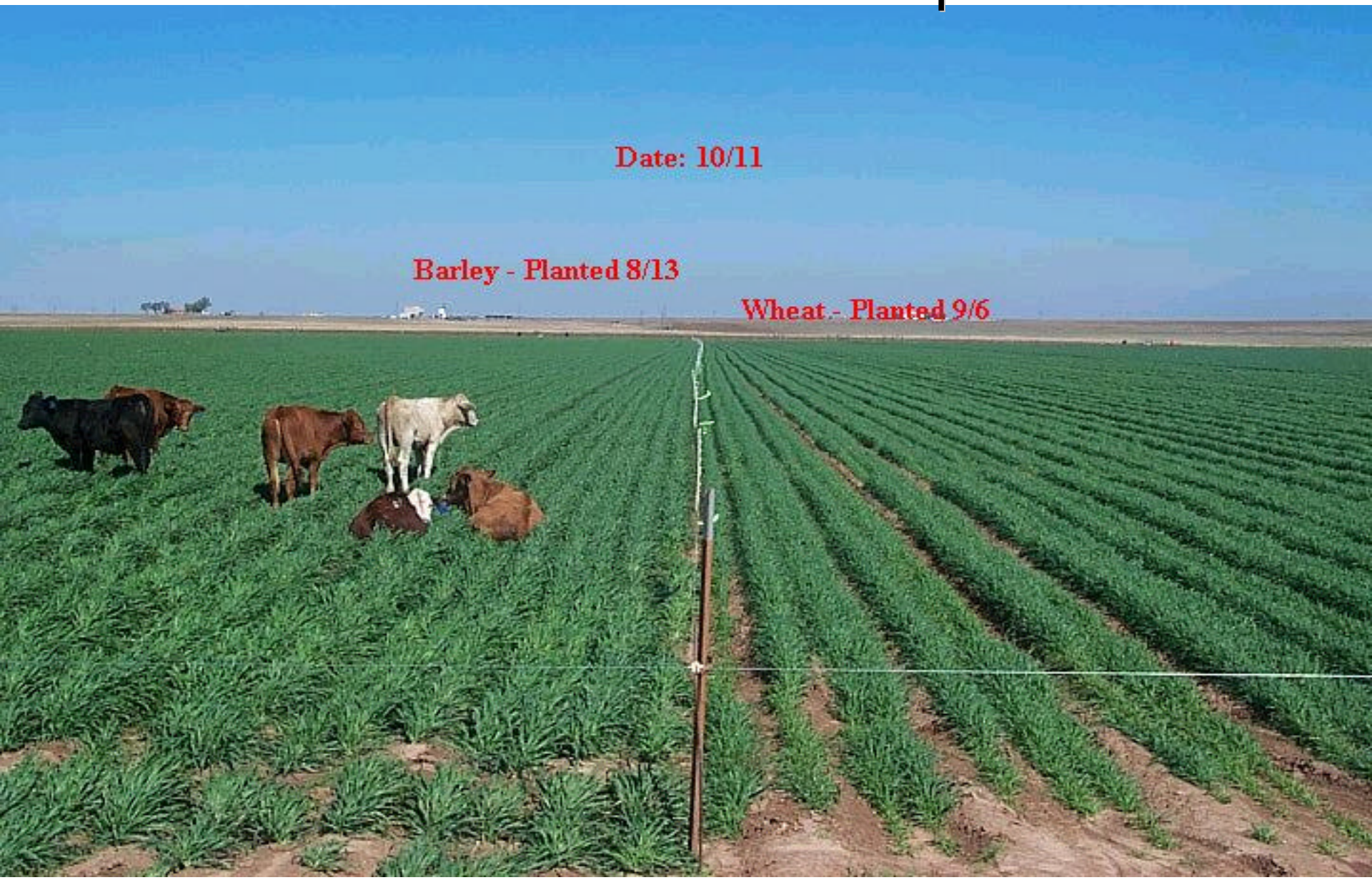
Tons/Ac (wet)

Small Grains	Entries	Avg. Yield
Wheat –Bearded	10	7.7
Wheat - Beardless	4	8.6
White wheat	2	7.1
Triticale	12	8.7
Rye	8	10.0

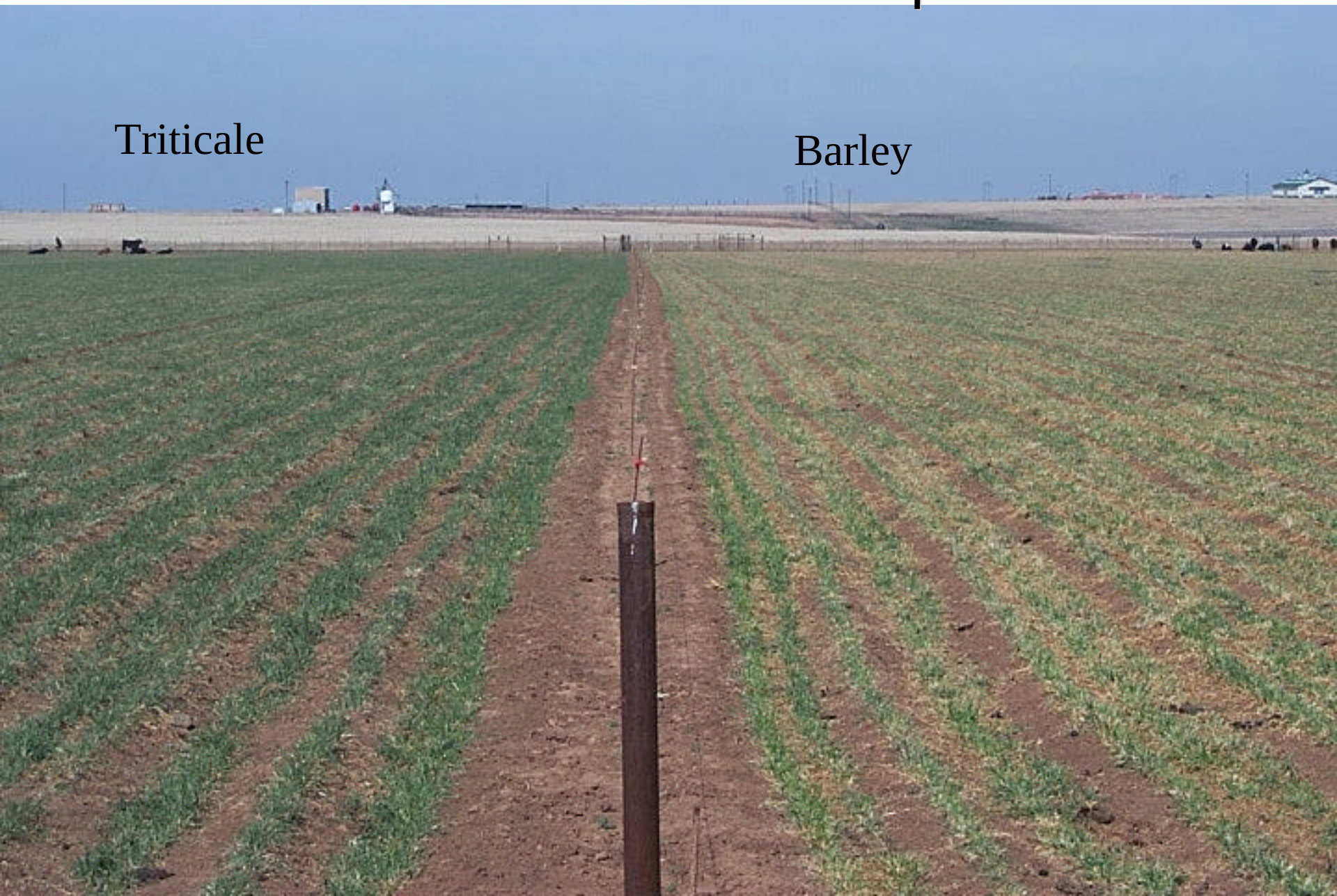
Bean, 2004

Non-host Crops: Forage Sorghums

Non-host Cereal Crops



Non-host Cereal Crops



Questions